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U. S. DEPARTMENT OF AGRICULTURE.

REPORT FOR FEBRUARY, 1899.

TEXAS SECTION

OF THE

CLIMATE AND CROP SERVICE

OF THE

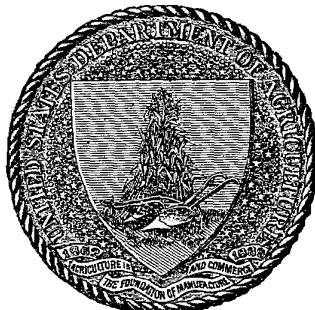
WEATHER BUREAU.

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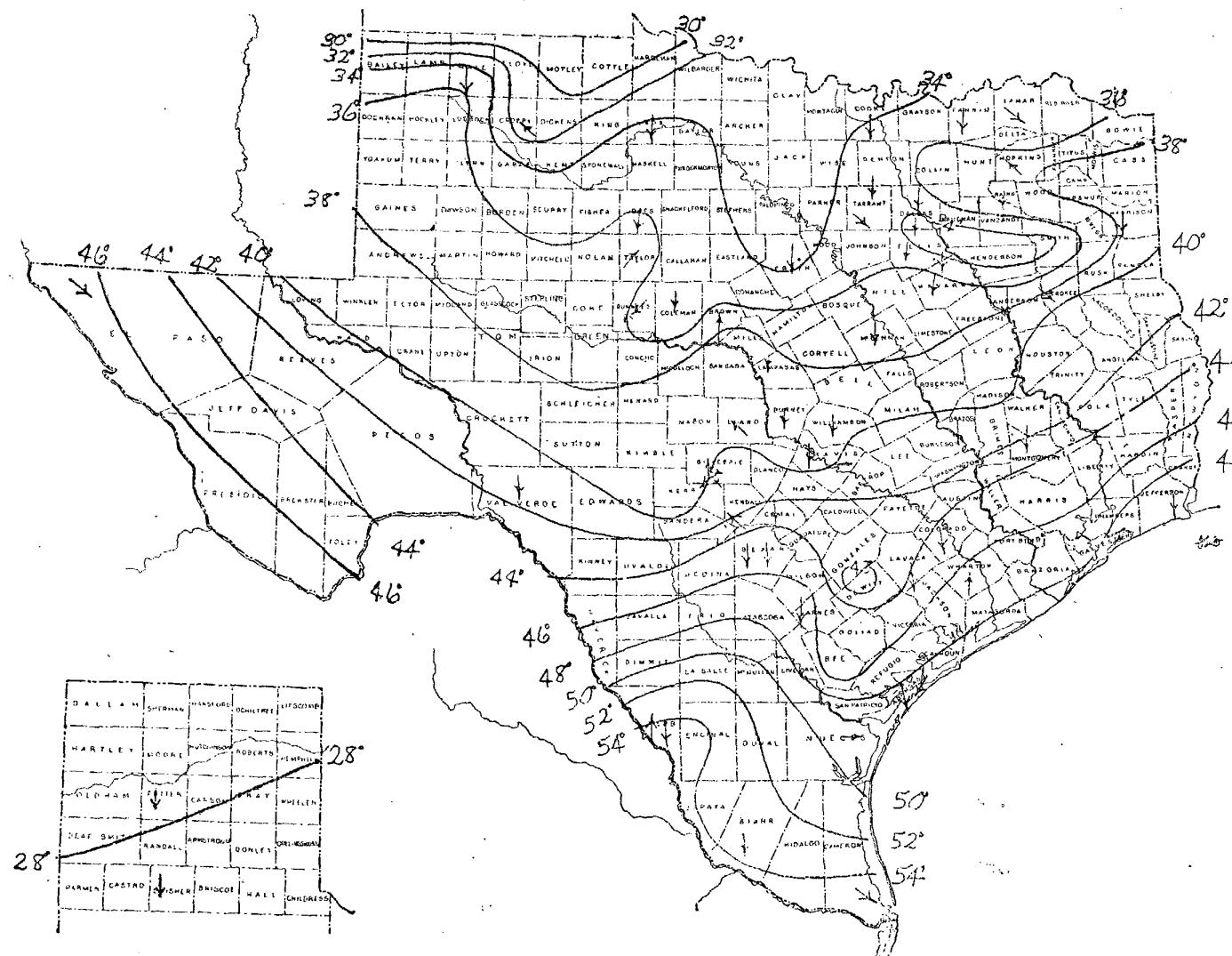
UNDER DIRECTION OF
WILLIS L. MOORE
CHIEF OF WEATHER BUREAU

BY

I. M. CLINE,
LOCAL FORECAST OFFICIAL AND SECTION DIRECTOR,
GALVESTON, TEX.



MONTHLY MEAN ISOTHERMS AND PREVAILING WINDS FOR FEBRUARY, 1899.



U. S. DEPARTMENT OF AGRICULTURE,

CLIMATE AND CROP SERVICE

OF THE

WEATHER BUREAU.

CENTRAL OFFICE: WASHINGTON, D. C.

TEXAS SECTION.

I. M. CLINE, Section Director,
GALVESTON, TEX.

VOL. III.

GALVESTON, TEX.

No. V.

NOTE.—In the climatological tables all records are used in determining state or district means, but state and district departures are determined by comparison of current data of only such stations as have normals.

CLIMATOLOGY OF THE MONTH.

ATMOSPHERIC PRESSURE (in inches and hundredths).

The mean atmospheric pressure, reduced to sea level, as shown by observations taken daily at 8 a. m. and 8 p. m., 75th meridian time, determined from eight stations fairly distributed over the state was 30.08 inches, which is about the normal pressure or slightly above for February. The mean pressure for the month ranged from 30.01 at El Paso to 30.14 at Fort Worth. The weather was influenced to some extent by four areas of relatively high pressure which crossed the state during the month: one prevailed from the 4th to the 14th, one from the 17th to the 21st, one on the 23d, and the other on the 27th and 28th. Abnormal pressure conditions prevailed from the 11th to the 13th, inclusive, and the highest barometer for the month was recorded at all stations on the 12th. Four areas of comparatively low pressure crossed the state during the month: one from the 1st to the 3d, one on the 15th and 16th, one on the 22d, and the other from the 24th to the 26th, inclusive. The area of low pressure which prevailed from the 24th to the 26th was more marked than any of the others and gave the lowest barometers for the month in all sections, and very high winds, ranging from 48 to 50 miles an hour, were reported from north and central Texas during the prevalence of this disturbance. The highest barometer for the month at the several stations ranged from 30.73 at Galveston to 31.06 at Abilene, and the lowest ranged from 29.49 at Amarillo to 29.62 at Galveston.

TEMPERATURE (degrees, Fahrenheit).

The temperature on an average for the state during the month, determined by comparison of 45 stations distributed throughout the state was 11.1 below the normal. There was a general deficiency ranging from 8 to 15, with the greatest in the interior. There was a marked daily deficiency generally from February 1 to the latter part of the second decade, and on the 11th, 12th, and 13th there was a daily deficiency ranging from 21 to 46, with the greatest over east Texas on the 12th. Warmer weather prevailed toward the close of the month, with the temperature generally above

the normal except on the 23d and 24th, when there was a deficiency ranging from 3 to 19, with the greatest deficit over the northern portion of the state. A cold wave of marked intensity prevailed throughout the state from February 11 to 13, inclusive. The minimum temperature for the month was recorded at all stations during the prevalence of this norther and they ranged from 6 to 23 below zero over the northern portion of the state to about 8 above over the southern portion. The lowest temperatures on record occurred in most sections of the state, especially over the southern portion. The lowest temperature ever recorded at Galveston prior to this cold wave was 11 on January 8, 1886; the lowest in February was 15 on the 8th, 1895, and during the prevalence of this cold spell the mercury went as low as 8 above zero at Galveston. From this the severity of this norther can be judged. The maximum temperature for the month was recorded at most stations during the last decade of the month. Maximum temperatures of 90 or above were recorded at only a few southern stations, while the number of days with temperature 32 or below ranges from 5 and 6 along the immediate coast to 28 at Amarillo and Tulia. The highest monthly mean was 55.8 at Fort McIntosh; lowest monthly mean, 27.0 at Amarillo; maximum, 99 at Fort Ringgold on the 3d; minimum, 23 below zero at Tulia on the 12th. Greatest local monthly range, 94 at Anson; least local monthly range, 63 at Galveston. The greatest local daily range was 59 at Tulia.

PRECIPITATION (in inches).

The precipitation on an average for the month determined by comparison of 50 stations distributed throughout the state, was 1.10 below the normal. There was only a slight deficiency over the east coast district and the extreme western portion of west Texas, while the deficit was general in other sections and amounted to more than one inch in most places, with the greatest, 2.61, at Longview. The precipitation for the month was not well distributed throughout the agricultural portions of the state, there being fairly good showers over the southeastern portion, while there was none for the month over the west and northwestern portions, where the drouth still continues. The number of rainy days for the month ranged from none in many localities over the western portions of the state to 13 at Galveston and Palestine. There was no excessive precipitation during the month. Greatest local monthly precipitation, 3.58 at Brazoria on 12 days; least local monthly precipitation, none or comparatively none at many stations over the western portions of the state.

MISCELLANEOUS PHENOMENA.

Some snow was reported from most stations except over the southern portions of the state, and the greatest local amount for the month was 5.0 at Marshall. For amount of snow at other stations see column headed "Total snowfall, unmelted," under precipitation, page 5 of this publication. Sleet was reported on the following dates: 2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 14, 16, and 24.

Hail was reported from Brenham on the 25th, from Galveston on the 15th and 24th, and from Houston on the 24th.

Lunar halos were observed at Galveston on the 20th, at Grapevine on the 17th and 18th, and at Sulphur Springs on the 13th.

Solar halo reported from Sulphur Springs on the 16th.

The prevailing winds for the month were north.

Light frosts (stations and dates of occurrence)—Austin, 1; Boerne, 4, 5, 9, 11, 14, 15, 18, 23, 24, 27; Brazoria, 5, 17, 18; Corsicana, 18; Duval, 15, 16, 18; Emory, 18; Estelle, 2, 3, 15, 16, 17, 18, 19, 27; Fruitland, 19, 27; Hallettsville, 18, 19; Lampasas, 9, 15, 16, 19, 22, 25; Rock Island, 9, 16; San Antonio, 27; Weatherford, 3.

Heavy frost at Corpus Christi on the 9th, at Corsicana on the 27th, and at Hallettsville on the 16th.

Killing frosts (stations and dates of occurrence)—Austin, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 23, 26, 27; Ballinger, 3, 7; Boerne, 1, 6, 7, 8, 10, 12, 13; Brazoria, 6, 7, 8, 9, 10, 11, 12, 13; Burnet, 1, 3; Corpus Christi, 7, 8, 12, 13, 14; Corsicana, 1, 13; Danevang, 12, 13, 14; Duval, 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 23, 24; Emory, 8, 27; Estelle, 1, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 23, 24; Fruitland, 15, 17; Galveston, 13; Jacksonville, 8, 9, 27; Point Isabel, 11, 12, 13; Rock Island, 8, 10, 11, 12; Sabine Pass, 7, 8, 9, 18; Sulphur Springs, 1, 6, 7, 8, 9, 10, 11, 12, 13, 14; Topaz, 13, 15, 16, 18; Weatherford, 5, 6, 7, 8, 9, 10, 11, 12, 23.

Thunderstorms (stations and dates of occurrence)—Alvin, 24; Brazoria, 15; Columbia, 15; Corsicana, 25; Emory, 25; Estelle, 25, Galveston, 15; Golindo, 11, 12, 13; Paris, 25; Sabine Pass, 17, 20; Sulphur Springs, 25; Weatherford, 25.

CONDITION OF CROPS.

The month of February as a whole was very unfavorable for farming operations. The severe cold spell at the opening of the second decade stopped farming operations in all sections, which had already been retarded by the cold weather during the first decade. This, in connection with the drouth which is becoming very severe in places over west and north Texas, has placed farmers considerably behind with their work, especially plowing and making preparation for spring crops.

Fall and winter oats were damaged in places by the severe freeze of the 11th to the 13th, otherwise the crop is doing fairly well, but rain would be beneficial in localities. Some spring oats have been sown over the southern portion of the state, but the weather was unfavorable for this work until toward the close of February, when more favorable conditions prevailed.

It was reported at the close of the month that a few farmers had planted some corn over the southern portion of the state and preparations were being made for more planting.

The weather during February was unfavorable for the wheat crop generally. The severe cold wave with unusually low temperatures throughout the wheat belt from the 11th to 13th damaged the crop considerably in some sections, and as a consequence some fields will be plowed up and put in other crops. In some places the cold weather only checked growth and the crop continues very promising. The crop is needing rain in localities, especially over the western por-

tion of the wheat belt, where there has been very little precipitation for more than two months.

All winter vegetables were killed, where not heavily protected, by the severe freeze which extended throughout the coast region on the morning of February 12. Tropical shrubbery was killed to the ground and damage to fruit, vegetables and flowers amounted to many thousands of dollars. Warnings of the severe freeze were given out by the U. S. Weather Bureau well in advance of the cold, which caused many to protect and in this manner much early vegetables and flowers were saved. Strawberry plants were covered up in many places, and, while the bloom was killed, the plant was saved from injury, while where not covered the plants were mostly killed. Hot beds were protected and cabbage and other plants saved. The weather was more favorable for vegetables toward the close of the month and transplanting commenced again.

The sugar cane crop was damaged very little by the freeze.

Farmers are diversifying crops more this year than last and they will raise more of their home products than they have been doing in past years.

PERSONAL AND GENERAL.

Mr. King D. Blankenship, Topaz, Erath county, Texas, has tendered his services as voluntary observer and a meteorological station has been established at that place. Continuous records of temperature and rainfall will prove a great benefit in determining the climatological features of that section.

Another voluntary meteorological station has been established at Paris, Lamar county, Texas, with Mr. E. W. Brewster as observer. We appreciate Mr. Brewster's interest in the work and hope he will be able to furnish us with continuous records.

ERROR IN MEXICAN DATA.

In the January (1899) report, page 4 of this publication, the 8 p. m. barometer at Coatzacoalcos, Mexico, published 29.075 should be 30.075 and the monthly mean barometer at the same station, published 29.079, should be 30.079.

MEXICAN TELEGRAPH COMPANY STATIONS.

Through the courtesy of the officials of the Mexican Telegraph Company we are supplied with the data from which the following summaries are prepared for the month of February, 1899:

[Pressure is corrected for temperature and reduced to sea level.]

STATIONS.	Mean barometer.			Mean temperature.		
	8 a. m.	8 p. m.	Monthly	8 a. m.	8 p. m.	Monthly
Tampico, Mex.	30.084	29.950	30.017	58.4	65.4	63.4
Vera Cruz, Mex.	30.030	29.998	30.009	66.1	67.8	67.0
Coatzacoalcos, Mex.				70.3	74.5	72.4

Climatological data for February, 1899.

STATIONS.	COUNTIES.	ELEVATION—FEET.	LENGTH OF RECORD—YEARS.	TEMPERATURE—in degrees Fahrenheit.						NUMBER OF DAYS TEMPERATURE REACHED	PRECIPITATION—in inches.						OBSERVERS.						
				MEAN.	DEPARTURE FROM THE NORMAL.	HIGHEST.	LOWEST.	DATE.	GREATEST DAILY RANGE.		90° OR ABOVE.	32° OR BELOW.	TOTAL.	DEPARTURE FROM THE NORMAL.	GREATEST IN 24 HOURS.	NUMBER RAINY DAYS.	NUMBER CLEAR DAYS.	NUMBER PARTLY CLOUDY DAYS.	NUMBER CLOUDY DAYS.				
Abilene.....	Taylor.....	1,748	13	36.8	-10.3	78	20	-6	12	44	0	20	0.01	-1.20	0.01	1	10	11	7	SW.	W. E. Oliver.		
Albany*	Shackelford	6	35.9	-9.0	68	19	-8	12	44	0	20	2.56	...	...	...	8	2	8	13	NW.	N. L. Bartholomew.
Alvin.....	Brazoria.....	...	...	...	...	...	...	...	...	...	...	2.56	1.79	0.0	1.01	5	5	5	5	N.	F. A. Smith.
Amarillo.....	Potter.....	7	27.0	-10.2	65	27	-16	12	55	0	28	0.07	-1.01	0.04	3	18	3	9	S.	J. J. O'Donnell.			
Anna.....	Collin.....	...	36.6	...	78	28	-11	12	43	0	21	0.65	0.60	0.5	2	13	3	9	S.	R. T. Shelton.			
Anson.....	Jones.....	37.9	...	83	28	-11	12	53	0	20	T	...	...	...	0	13	3	7	N.	J. T. Wright.	
Arthur City.....	Lamar.....	590	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Richard White.	
Austin.....	Travis.....	650	43	39.5	-14.4	76	22	-1	12	41	0	19	0.91	-1.56	0.80	0	3	11	9	8	W. R. Neville.		
Ballinger.....	Runnels.....	1,680	35.4	...	78	21	-2	12	50	0	25	T	...	...	...	0	16	10	2	NE.	H. D. Pearce.
Beaumont.....	Jefferson.....	49.6	...	67.9	25	4H	12	...	...	...	2.00	...	2.00	0.0	...	3	...	...	...	P. O. Laune.	
Bevilille.....	Bee.....	...	45.8	...	93	22	5	12	52	1	13	0.90	...	0.75	0.0	3	...	...	...	A. H. Kent.	
Blanco.....	Kendall.....	200	40.6	...	84	22	6	12	44	0	15	0.00	...	0.60	1	11	13	4	SE.	R. C. Crist.			
Borner *	Brazoria.....	1,333	10	35.0	-15.8	80	21	0	12	45	0	19	0.45	-1.75	0.45	1	13	4	11	SE.	Dr. J. F. Weatherhead.		
Breckenridge.....	Stephens.....	25	10	48.0	-9.1	80	22	6	11	36	0	7	3.58	+0.27	2.00	T	12	6	13	9	Mrs. Mary Stevens.		
Brenham.....	Washington.....	350	10	42.0	-14.0	81	22	0	12	42	0	15	1.17	-1.62	0.89	0	1	9	...	...	W. C. Veale.
Brighton.....	Nueces.....	12	5	49.8	...	80	17	7	12	38	0	6	0.56	-0.77	0.40	0	3	0	19	9	J. G. Sloan.		
Brownwood.....	Brown.....	1,628	9	39.6	-10.4	80	28	0	12	45	0	19	T	-1.08	0.70	0	3	11	11	4	S.	S. M. Johnson.	
Burnet *	Burnet.....	1,395	8	40.4	-10.1	73	13	-3	12	31	0	12	0.31	-1.08	0.16	0	2	14	0	14	N.	F. B. Greenwood.	
Camp Eagle Pass.....	Maverick.....	800	30	...	...	...	...	...	...	...	...	0.00	-1.09	0.00	0	0	...	...	...	...	W. M. Spitzer.
Childress.....	Childress.....	1,880	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Post Surgeon.	
Coleman.....	Coleman.....	1,710	9	34.6	-12.2	74	21	-6	12	41	0	21	T	-1.23	T	0	13	2	13	N.	G. H. Chipman.		
College Station.....	Brazos.....	360	11	41.0	-1.16	0.88	0.0	4	11	5	12	N.	E. A. Lindsey.	
Colorado City.....	Mitchel.....	4	...	...	...	...	...	...	...	...	...	...	...	-0.65	T	0	0	2	2	...	S. E. Burnes.
Columbia.....	Brazoria.....	30	10	46.4	-10.9	79	23	5	12	40	0	9	2.18	-1.02	2.04	T	10	11	3	14	W. K. Lewis.		
Corcoran.....	Montgomery.....	...	44.6	...	81	21	2	11	35	0	12	1.35	...	0.65	0.2	8	11	4	13	N.	J. S. Rogers.		
Corpus Christi.....	Nueces.....	20	15	49.2	-9.5	83	21	7	12	44	0	14	0.00	-1.12	0.42	5	12	5	11	N.	A. E. Gilbert.		
Corsicana.....	Navarro.....	445	17	36.8	-12.5	73	26	-7	12	43	0	17	1.24	-1.33	0.43	3	0	6	...	...	George Reeder.
Cuero.....	DeWitt.....	177	7	41.2	-14.5	88	22	4	12	49	0	15	1.00	-1.42	0.36	0	7	...	...	E. L. Gibson.	
Dalton.....	Dallas.....	466	8	33.6	-15.0	77	28	-10	12	48	0	22	0.38	-1.53	0.28	1	3	13	0	15	Dr. J. M. Reuss.		
Danevang.....	Wharton.....	145	...	46.8	...	82	22	3	12	33	0	10	1.36	...	0.69	T	10	11	3	14	G. A. Eisenlohr.		
Dublin.....	Erath.....	...	33.0	...	77	21	9	12	51	0	12	2.05	...	0.05	T	1	...	...	...	F. P. Lund.	
Duval.....	Travis.....	650	8	43.4	-10.4	81	22	-5	12	36	0	14	0.92	-1.61	0.61	T	2	5	1	12	George Buckingham.		
El Paso.....	El Paso.....	3,830	40	46.3	-1.9	76	22	5	12	44	0	14	0.03	-1.47	0.31	1	22	4	2	NW.	John C. Edgar.		
Emory.....	Raines.....	550	40	36.3	...	75	28	...	12	45	0	20	0.80	...	0.81	1	8	6	13	4	11	N.	N. D. Lane.
Estelle.....	Dallas.....	614	...	36.3	...	81	28	-10	12	45	0	12	0.30	2	0	7	15	1	12	N.	W. O. Hebbien.
Forrestburg.....	Montagne.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	S. G. Luckey.	
Fort Brown.....	Cameron.....	43	37	54.6	-8.9	90	23	12	13	40	1	6	1.09	...	0.32	0	0	7	...	...	J. N. Morris.
Fort Clark.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Post Surgeon.	
Fort McIntosh.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Post Surgeon.	
Fort Ringgold.....	Starr.....	230	37	52.6	-10.8	99	22	7	13	49	3	8	0.08	-0.77	0.08	0	1	...	...	...	Post Surgeon.
Fort Stockton.....	Pecos.....	3,050	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	Frank Rooney.	
Fort Worth.....	Tarrant.....	1,100	11	35.1	-15.6	78	28	-8	13	48	0	22	0.21	-2.59	0.09	4	14	7	7	NW.	E. M. Ravenscroft.		
Fredericksburg*	Gillespie.....	1,742	14	d41.1	-10.8	83	3	-1	12	40	0	20	0.87	-1.29	0.17	T	2	17	3	8	WW.	Arthur Streigler.	
Fruitland.....	Montague.....	1,132	9	33.5	...	80	20	-12	12	43	0	22	0.17	...	0.16	T	2	14	5	9	N.	S. P. Benton.	
Guinesville.....	Cooke.....	9	34.5	-12.7	74	20	-12	12	47	0	22	0.54	-1.28	0.50	0.4	2	12	7	9	N.	D. F. Ragsdale.		
Galveston.....	Gulfport.....	54	25	48.6	-8.4	71	22	8	12	39	0	5	2.83	-0.17	1.98	0	13	5	6	17	I. M. Cline.		
Georgetown *.....	Williamson.....	750	18	d38.4	...	76	28	-2a	12	42	0	12	0.51	...	0.26	0	0	5	1	12	A. S. Howren.		
Golindo.....	McLennan.....	450	...	...	...	...	...	...	...	...	...	0.80	-2.01	0.25	T	8	...	...	...	R. H. Majors.	
Grapevine.....	Tarrant.....	1,110	8	35.6	-11.5	80	28	-12	12	40	0	20	0.87	-1.51	0.71	T	3	16	4	8	N.	W. J. Crowley.	
Hale Center.....	Hale.....	3,000	6	36.4	-8.5	77	20	-12	12	50	0	22	0.22	-1.31	0.31	T	0	13	9	6	N.	B. A. Hudgins.	
Hallettsville.....	Lavaca.....	255	7	44.8	-10.4	85	21	5	12	43	0	12	0.57	-1.62	0.35	0.0	3	13	6	9	N.	Dr. J. E. Lay.	
Hearne.....	Robertson.....	305	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	W. A. Snell.	
Henrietta.....	Clay.....	915	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	R. J. Flannion.	
Hewitt.....	McLennan.....	...	19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	I. H. Earle.	
Honey Grove.....	Fannin.....	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	L. C. Hill.	
Houston.....	Harris.....	53	18	45.4	-11.9	78	22	6	13	34	0	9	3.03	-0.43	2.00	T	7	...	...	...	John A. McNabb.
Hulen.....	Galveston.....	...	45.5	...	79	22	7	12	33	0	7	2.53	1.32	0.0	8	0	8	2	...	F. W. Malley.			
Huntsville.....	Walker.....	400	11	40.4	-11.0	73	24	-2	12	33	0	13	1.83	-1.13	0.80	T	4	...	...	...	W. Y. Barr.
Jacksonville.....	Cherokee.....	...	41.0	...	76	21	-1	12	44	0	14	1.79	0.92	1.5	9	12	3	13	NW.	W. A. Caviness.			
Jasper.....	Jasper.....	44.6	...	80	24	3	12	46	0	11	2.30	0.95	2.5	6	...	...	...	...	Miss Eddie Kellie.		
Kent.....	El Paso.....	7	...	...	...	...	...	...	...	...	...	0.04	-0.36	0.04	0.5	1	...	...	...	J. C. Rickli.	
Kerr.....	Kerr.....	1,750	...	38.8	...	84	22	-2	12	52	0	21	0.25	...	0.25	T	4	...	...	...	H. Candlin.
Lampasas.....	Lampasas.....	1,026	6	38.1	-12.9	81	21	2	12	42	0	19	2.55	0.00	0	0	3	18	8	2	N.	W. H. Webber.	
Langtry.....	Val Verde.....	1,400	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	R. B. Trent.	
Llano*	Llano.....	6	45.7	-4.1	81	28	-4	12	48	0	24	0.00	-0.91	0.00	0	0	20	0	8	SE.	Judge J. W. Davis.		
Longview.....	Gregg.....	336	9	37.4	-14.1	73	26	-7	12	40	0	23	1.40	-2.61	0.40	3.2	8	...	...	G. W. Krehc.	
Luling.....	Caldwell.....	418	9	42.5	-12.7	83	23	2	12	46	0	16	0.58	-1.38	0.38	T	4	...	...	...	John Carter.
Mann.....	Navarro.....	450	63																				

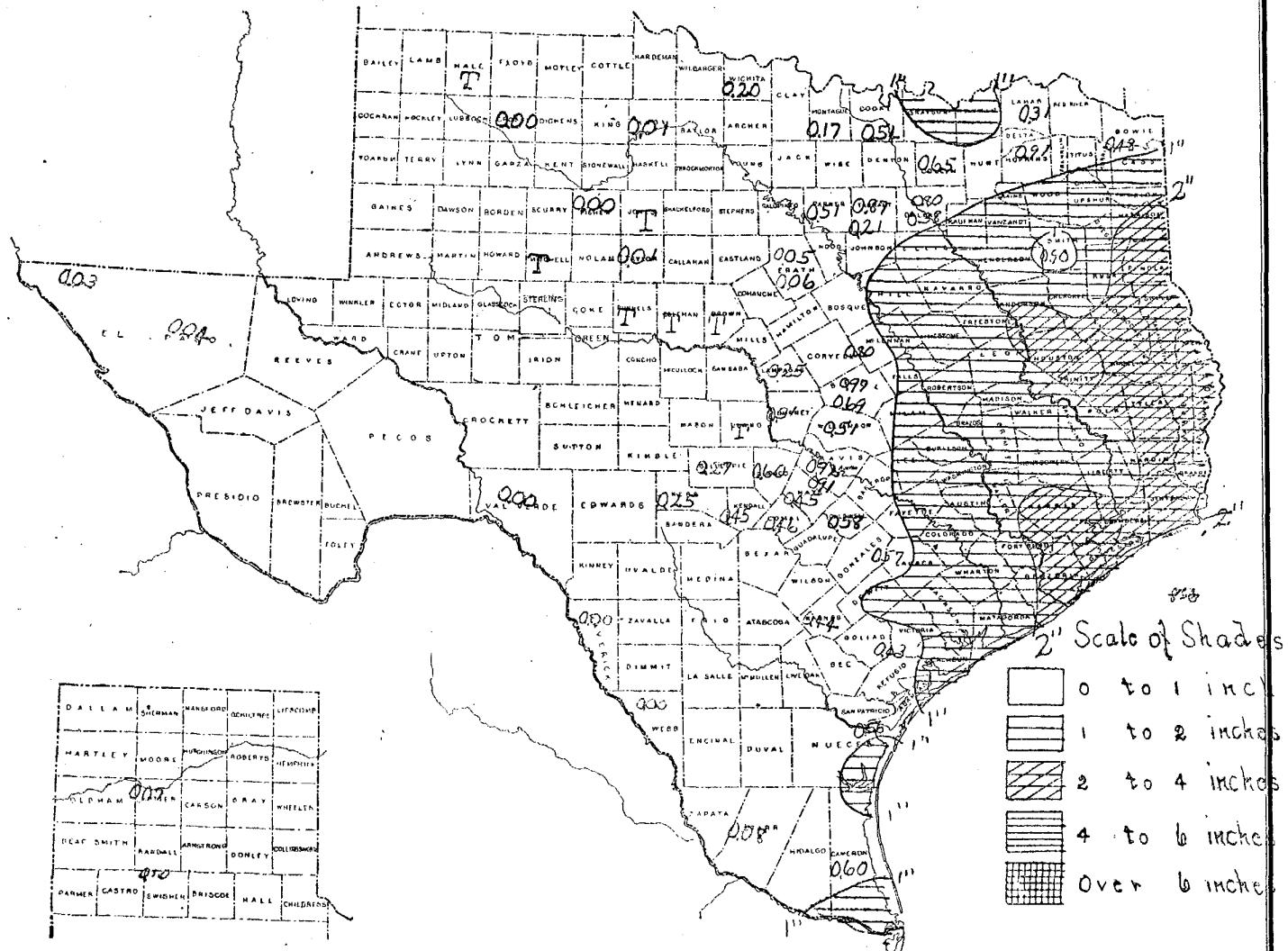
CLIMATE AND CROPS: TEXAS SECTION.

FEBRUARY, 1899.

Daily maximum and minimum temperatures during the month of February, 1899.

Date.....	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Monthly mean.	
STATIONS.	Max. Min.																																
Abilene.....	65	21	42	18	43	25	28	14	27	14	26	12	28	10	54	14	34	13	50	13	27	11	16	-6	46	9	49	26	50	22	43	65	28
Amarillo.....	58	7	34	6	43	6	24	4	14	2	7	-1	16	-8	39	9	33	2	53	0	-12	28	-16	41	8	46	28	54	26	62	37	49	
Anna.....	55	15	43	34	44	32	40	21	27	17	28	17	35	14	45	3	42	14	38	10	22	-17	33	-3	48	20	53	29	70	34	50		
Anson.....	69	16	42	11	38	13	20	19	27	19	29	19	49	9	39	51	74	5	18	-1	50	49	17	16	67	35	60	30	53	15			
Austin.....	54	28	60	45	79	32	38	25	30	20	30	18	39	13	21	41	27	17	35	20	20	2	38	10	24	15	35	30	73	32	53		
Ballinger.....	30	11	69	22	52	26	68	22	30	17	33	15	28	11	29	13	79	26	13	61	11	17	-2	19	-2	47	6	48	15	57	17		
Beaumont.....	68	32	69	45	70	57	72	59	54	50	59	30	48	25	60	32	65	33	45	24	64	4	4	4	13	72	18	71	21	95	19		
Beeville.....	42	27	50	33	65	45	78	59	55	30	35	25	34	21	47	21	58	23	52	24	38	5	12	7	42	13	52	29	59	73	75		
Blanco.....	50	30	50	30	80	40	70	40	20	16	20	12	19	20	28	5	50	20	20	10	2	6	7	5	34	20	56	34	74	49			
Brazoria.....	59	57	73	57	71	65	73	57	45	33	38	26	39	19	49	20	63	29	48	33	42	6	20	7	37	9	53	34	69	57			
Brenham.....	35	24	51	39	68	51	77	37	38	28	31	26	27	14	31	17	48	28	54	26	38	27	15	15	25	35	38	30	65	55			
Brighton.....	46	39	68	56	74	62	72	47	32	43	38	24	43	17	50	34	54	30	44	11	29	7	39	22	57	57	68	72	57	84			
Brownwood.....	35	20	38	26	46	31	31	26	32	20	20	12	29	16	33	22	40	26	20	22	9	45	21	59	26	68	32	73	57	74			
Camp Eagle Pass.....	22	22	24	24	45	50	44	27	27	20	15	15	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20			
Childress.....	22	22	24	24	45	50	44	27	27	20	15	15	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20			
Coleman.....	30	19	60	25	48	27	41	20	36	18	28	15	24	10	26	10	46	18	21	12	47	8	15	-6	11	4	26	21	46	24	99		
College Station.....	43	32	58	37	72	57	72	63	67	35	43	32	51	26	56	16	47	16	62	30	47	17	5	38	8	50	36	46	56	54	67		
Columbia.....	52	32	68	52	70	48	48	32	49	33	24	34	15	45	25	54	27	36	29	29	20	2	6	34	18	40	34	50	37	60			
Conroe.....	52	34	65	50	70	59	63	54	44	38	36	39	32	41	24	44	24	38	42	48	26	11	25	32	32	32	32	32	32	32			
Corpus Christi.....	28	14	42	35	51	38	46	24	27	19	48	20	49	18	37	14	23	42	34	26	13	29	7	39	22	57	57	68	36	73			
Corsicana.....	26	16	58	35	69	45	55	26	40	25	34	24	32	20	28	17	36	26	36	24	38	20	37	25	45	27	35	32	45				
Cuero.....	52	28	60	45	72	59	72	59	54	35	42	31	48	24	52	14	37	14	23	19	30	7	39	14	42	14	50	23	63	45			
Dallas.....	56	28	58	43	65	41	53	25	20	16	26	18	30	16	31	12	47	18	26	10	29	19	10	13	10	40	15	50	23	65			
Daneyang.....	57	29	72	51	78	65	68	56	38	33	35	29	36	24	45	17	62	26	45	34	35	20	17	34	34	34	34	34	34	34			
Dublin.....	59	6	9	62	20	45	27	39	21	22	17	23	14	27	10	8	28	10	20	19	49	10	12	7	4	12	21	21	21	21	21		
El Paso.....	71	44	67	37	63	44	62	31	29	27	39	26	35	13	56	25	71	36	45	14	31	55	14	56	30	63	24	73	47	81			
Emory.....	54	14	44	11	47	39	41	27	26	31	34	31	43	17	30	11	31	15	26	9	16	-1	13	-1	33	-2	44	19	50	24	71		
Estelle.....	58	18	42	34	49	32	33	22	26	21	31	17	31	14	49	10	31	15	26	9	16	-1	13	-1	33	-2	44	19	50	24	71		
Forestburg.....	66	36	58	42	79	65	79	67	85	45	46	37	38	29	46	24	56	25	72	40	53	16	29	12	49	18	68	38	72	44			
Fort Brown.....	66	36	58	42	79	65	79	67	85	45	46	37	38	29	46	24	56	25	72	40	53	16	29	12	49	18	68	38	72	44			
Fort Clark.....	67	2	42	1	42	27	50	33	25	20	16	12	8	4	27	17	31	22	37	21	47	10	13	10	40	15	50	24	67	38	68		
Fort McIntosh.....	53	39	53	44	83	54	67	39	48	34	40	25	44	20	48	22	77	31	67	43	58	10	38	23	50	34	67	49	74	50			
Fort Ringgold.....	58	34	51	39	80	53	87	61	97	43	47	33	53	24	42	16	56	23	79	31	71	43	58	10	38	23	50	34	67	49			
Fort Worth.....	66	12	44	21	38	36	28	24	27	21	29	19	31	14	45	15	47	26	14	21	27	22	21	22	21	22	21	22	21	22			
Fruitland.....	50	15	74	32	55	41	27	20	17	24	32	28	12	30	9	51	22	11	27	18	5	14	-12	38	14	42	14	50	23	63	45		
Gainesville.....	41	19	44	26	30	34	24	31	20	12	34	17	41	13	50	8	20	14	26	10	12	31	58	16	38	10	40	15	50	23	63		
Galveston.....	53	39	65	53	66	67	64	45	48	42	43	33	28	24	44	20	57	44	57	40	50	17	34	10	40	15	50	23	63	45			
Grapevine.....	56	16	41	36	35	30	25	21	28	18	31	15	23	12	48	11	47	11	37	12	45	7	30	16	40	15	50	23	63	45			
Hale Center.....	51	20	44	20	53	24	35	18	30	19	12	9	1	4	15	46	10	49	20	53	16	27	12	45	7	30	16	40	15	50			
Junction City.....	41	17	56	18	65	47	86	49	39	40	24	30	19	32	15	32	9	49	7	65	13	43	14	54	20	22	11	22	11	22			
Kerrville.....	41	17	56	18	65	47	86	49	39	40	24	30	19	32	15	32	9	49	7	65	13	43	14	54	20	22	11	22	11	22			
Lampasas.....	58	19	52	47	68	55	68	52	24	21	26	35	17	46	10	30	27	44	21	26	11	35	16	45	23	53	14	63	22	71			
Langtry.....	33	21	42	22	68	38	68	33	43	30	38	29	34	22	31	12	47	17	30	17	30	7	13	-4	31	21	35	23	42	11	50		
Luling.....	37	27	50	29	64	56	74	34	38	27	31	22	30	26	8	36	18	47	24	32	21	23	17	34	10	40	15	50	23	63			
Mann.....	40	21	58	39	68	56	57	35	36	30	34	27	34	21	45	12	40	26	32	18	31	20	33	5	14	30	40	15	50	23	63		
Marathon.....	44	22	49	35	67	51	54	36	41	31	43	29	54	26	29	21	39	20	27	16	25	17	15	-9	26	-6	34	15	40	31	67		
Marshall.....	44	22	49	35	67	51	54	36	41	31	43	29	54	26	29	21	39	20	27	16	25	17	15	-9	26	-6	34	15	40	31	67		
Menardville.....	56	16	42	12	38	20	20	10	15	7	16	7	20	1	47	11	29	5	48	10	27	-4	14	34	11	54	24	64	25	74	33		
New Braunfels.....	56	23	63	47	74	52	43	39	34	30	33	25	36	22	43	13	61	29	37	14	54	24	64	25	74	33	80	24	90	32			
Palestine.....	50	21	58	37	68	47	36	29	21	18	31	18	37	13	43	24	39																

TOTAL PRECIPITATION FOR FEBRUARY, 1899.



Daily precipitation for February, 1899.

Stations.	Day of month.																														Total	
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
Abilene			T	.or	T		T		T		T		T		T		T		T		T		T		T		T		T		0.01	
Albany	.02	.06																														0.00
Alvin			.or	T					.04																						2.56	
Amarillo			T	T	T	T																									0.07	
Anna																																0.65
Anson																																T
Arthur City																																
Austin																																
Ballingr																																
Beaumont			T																													2.00
Beeville																																0.90
Blanco																																0.60
Boerne			T	T																												0.45
Brazoria			.05																													3.58
Breckenridge																																T
Brenham																																1.17
Brownwood																																0.56
Burnet																																0.31
Camp Eagle Pass																																0.00
Childress																																T
Coleman																																1.22
College Station																																T
Colorado City																																2.18
Columbia																																1.35
Conroe			T	.14	.03	T																									1.08	
Corpus Christi																																1.24
Corsicana																																1.00
Cuero																																0.38
Dallas																																2.88
Daneyang																																1.36
Dublin																																0.55
Duval																																0.92
El Paso																																0.93
Emory																																1.60
Estelle																																0.80
Forestburg																																
Fort Brown																																1.09
Fort Clark																																0.00
Fort McIntosh																																0.21
Fort Ringgold																																0.27
Fort Stockton																																0.17
Fredericksburg																																T
Fruitland			T	T	T	T																										0.17
Gainesville			T	T	T	T																									0.27	
Galveston			T	.04	.02	T																									0.17	
Georgetown																																0.54
Golindo																																0.51
Grapevine																																0.80
Hale Center																																0.87
Hallettsville			T	T	T	T																									T	
Hearns																																0.57
Henrietta																																0.57
Hewitt																																1.00
Honey Grove																																1.20
Houston																																3.03
Hulen																																2.53
Huntsville																																1.83
Jacksonville																																1.79
Jasper																																2.30
Junction City																																
Kent																																0.04
Kerrville																																0.25
Lamitas																																0.25
Longview																																1.40
Luling																																0.58
Mann																																1.35
Marathon																																2.53
Marshall																																
Menardville																																
Mount Blanco																																0.00
New Braunfels																																3.46
Panter																																3.46
Paris																																3.46
Point Isabel																																3.46
Rhineyand																																3.46
Roby																																3.46
Rock Island																																3.46
Rockport																																3.46
Rock Springs																																3.46
Rutne																																

T indicates amount too small to measure.